PILOT SIGNALS FOR USE IN MULTI-SECTOR CELLS

Publication number: JP2007525045 (T)

Publication date: 2007-08-30

Inventor(s):

Applicant(s):

Classification:

- international: **H04B1/713; H04B7/005; H04B7/04; H04B7/26; H04J11/00; H04W52/24; H04W52/32; H04B17/00; H04W16/24; H04B1/69; H04B7/005; H04B7/04; H04B7/26; H04J11/00; H04W52/00; H04B17/00; H04W16/00**

- European: H04B7/04S; H04W52/24; H04W52/32

Application number: JP20060503787T 20040220

Priority number(s): US20030449729P 20030224; US20030648766 20030825; US20030648767 20030825; WO2004US05242 20040220
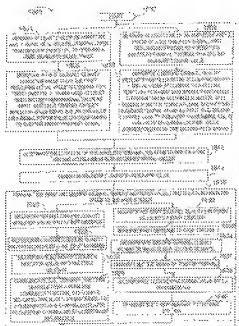
Also published as:

WO2004077685 (A2)
WO2004077685 (A3)
WO2004077728 (A2)
WO2004077728 (A3)
KR20050099633 (A)

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Abstract not available for JP 2007525045 (T)

Abstract of corresponding document: **WO 2004077685 (A2)**

Pilot signal transmission sequences and methods are described for use in a multi-sector cell. Pilots in different sectors are transmitted at different known power levels. In adjacent sectors a pilot is transmitted while no pilot is transmitted in the adjoining sector. This represents transmission of a NULL pilot signal. A cell NULL is also supported in which NULL pilots are transmitted in each sector of a cell at the same time. Multiple pilot signal measurements are made. At least two channel quality indicator values are generated from measurements corresponding to at least two pilot signals of different power levels. The two values are transmitted back to the base station which uses both values to determine the transmit power required to achieve a desired SNR at the wireless terminal. The wireless terminal also reports information indicating its location to a sector boundary.